

QL
640
S666
REPT

CHECKLIST AND TAXONOMIC BIBLIOGRAPHY OF THE AMPHIBIANS FROM PERÚ



Victor R. Morales
Asociación de Ecología y Conservación/Perú



**SMITHSONIAN
HERPETOLOGICAL INFORMATION
SERVICE
NO. 107**

1995

SMITHSONIAN
HERPETOLOGICAL
INFORMATION
SERVICE

The SHIS series publishes and distributes translations, bibliographies, indices, and similar items judged useful to individuals interested in the biology of amphibians and reptiles, but unlikely to be published in the normal technical journals. Single copies are distributed free to interested individuals. Libraries, herpetological associations, and research laboratories are invited to exchange their publications with the Division of Amphibians and Reptiles.

We wish to encourage individuals to share their bibliographies, translations, etc. with other herpetologists through the SHIS series. If you have such items please contact George Zug for instructions on preparation and submission. Contributors receive 50 free copies.

Please address all requests for copies and inquiries to George Zug, Division of Amphibians and Reptiles, National Museum of Natural History, Smithsonian Institution, Washington DC 20560 USA. Please include a self-addressed mailing label with requests.

INTRODUCTION

Until 1985, when Darrel Frost published the Catalogue of the Amphibians Species of de World, no comprehensive list of amphibians of Peru existed. Now, Rodriguez et al. (1993) have published a preliminary list of Amphibians from Perú with species distribution in ecological regions. Herein, I list all the species of amphibians reported from Perú and annotations on some species listed for Rodriguez et al. (op. cit.). The present list contains the following (family/genus/species): in Gymnophiona: 5/6/16, in Caudata: 1/1/3, and in Anura: 9/44/298, the total is 15/51/316. Taxa are listed alphabetically by family, genus, and species.

The bibliography includes only those papers in which the species listed herein were described. A list of all Peruvian herpetofaunal works and a list of Peruvian reptiles will be published by the author in the near future.

ACKNOWLEDGEMENTS

I thank the Museo de Historia Natural de la Universidad Nacional Mayor de San Marcos, Lima, Perú; Fish and Wildlife Service, U.S.A.; the National Museum of Natural History, Smithsonian Institution, Washington, U.S.A. and Carlos Arias from the Universidad Ricardo Palma, Perú, for their help in the preparation of this list. I am also undepcted to David C. Cannatella, William E. Duellman, Roy W. McDiarmid, Juan A. Rivero, Belisario Cepeda, Jose A. Cedeño and Carlos Santos for their comments and help.

AMPHIBIA

GYMNOPHIONA

CAECILIIDAE

- Caecilia attenuata Taylor, 1968
 C. corpulenta Taylor, 1968
 C. disossea Taylor, 1968
 C. gracilis Shaw, 1802
 C. inca Taylor, 1973
 C. pachynema Günther, 1859
 C. tentaculata Linnaeus, 1758

OSCAECILIIDAE

- Oscaecilia bassleri (Dunn, 1942)
 Oscaecilia koepckeorum Wake, 1985 "1984"

SIPHONOPIDAE

- Siphonops annulatus (Mikan, 1820)

RHINATREMATIDAE

- Epicrionops bicolor Boulenger, 1883b
 E. lativittatus Taylor, 1968
 E. peruvianus (Boulenger, 1902b)
 E. petersi Taylor, 1968
 Nectocaecilia petersii (Boulenger, 1882b)

TYPHLONECTIDAE

- Typhlonectes compressicauda (Duméril and Bibron, 1841)

CAUDATA

PLETHODONTIDAE

- Bolitoglossa altamazonica (Cope, 1874)
 B. digitigrada Wake, Brame, and Thomas, 1982
 B. peruviana (Boulenger, 1883c)

ANURA

BUFONIDAE

- Atelopus erythropus Boulenger, 1903
 A. peruensis Gray and Cannatella, 1985

- A. *seminiferus* Cope, 1874
- A. *spumarius* Cope, 1871
- A. *tricolor* Boulenger, 1902c
- Bufo *arborescandens* Duellman and Schulte, 1992
- B. *arequipensis* Vellard, 1959
- B. *cophotis* Boulenger, 1900
- B. *corynetes* Duellman and Ochoa, 1991
- B. *dapsilis* Myers and Carvalho, 1945
- B. *diptychus* Cope, 1862b
- B. *fissipes* Boulenger, 1903
- B. *flavolineatus* Vellard, 1959
- B. *glaberrimus* Günther, 1868
- B. *granulosus* Spix, 1824
- B. *inca* Stejneger, 1913
- B. *iserni* (Jiménez de la Espada, 1875)
- B. *leptocelis* Boulenger, 1912
- B. *limensis* Werner, 1901
- B. *marinus* (Linnaeus, 1758)
- B. *nesiotes* Duellman and Toft, 1979
- B. *poepigii* Tschudi, 1845
- B. *roqueanus* (Melin, 1941)
- B. *simus* Schmidt, 1857
- B. *spinulosus* Wiegmann, 1834
- B. *trifolium* Tschudi, 1845
- B. *typhonius* (Linnaeus, 1758)
- B. *variegatus* (Günther, 1870)
- B. *vellardi* Leviton and Duellman, 1978
- Dendrophryniscus *minutus* (Melin, 1941)

CENTROLENIDAE

- Centrolene *buckleyi* (Boulenger, 1882a)
- C. *fernandoi* Duellman and Schulte, 1993
- C. *hesperium* (Cadle and McDiarmid, 1990)
- C. *lemniscatum* Duellman and Schulte, 1993
- C. *muelleri* Duellman and Schulte, 1993
- Cochranella *azulae* (Flores and McDiarmid, 1989)
- C. *chancas* Duellman and Schulte, 1993
- C. *croceopodes* Duellman and Schulte, 1993
- C. *euhystrix* (Cadle and McDiarmid, 1990)
- C. *mariae* (Duellman and Toft, 1979)
- C. *midas* (Lynch and Duellman, 1973)
- C. *ocellata* (Boulenger, 1918)
- C. *phenax* (Cannatella and Duellman, 1982)
- C. *pluvialis* (Cannatella and Duellman, 1982)
- C. *saxiscandens* Duellman and Schulte, 1993
- C. *siren* (Lynch and Duellman, 1973)
- C. *spiculata* (Duellman, 1976)
- C. *tangarana* Duellman and Schulte, 1993
- C. *truebae* (Duellman, 1976)
- Hyalinobatrachium *bergeri* (Cannatella, 1980)
- H. *lemur* Duellman and Schulte, 1993

H. *munozorum* (Lynch and Duellman, 1973)

DENDROBATIDAE

- Colostethus* *argyrogaster* Morales y Schulte, 1993
C. *brunneus* (Cope, 1887)
C. *elachyhistus* Edwards, 1971
C. *idiomelus* Rivero, 1991
C. *littoralis* Péfaur, 1985
C. *marchesianus* (Melin, 1941)
C. *mittermeieri* Rivero, 1991
C. *nexipus* Frost, 1986
C. *peruvianus* (Melin, 1941)
C. *poecilonotus* Rivero, 1991
C. *sylvaticus* (Barbour and Noble, 1920)
C. *trilineatus* (Boulenger, 1884 "1883a")
Dendrobates *biolat* Morales, 1992
D. *captivus* Myers, 1982
D. *fantasticus* Boulenger, 1884 "1883a"
D. *imitator* Schulte, 1986
D. *lamasi* Morales, 1992
D. *mysteriosus* Myers, 1982
D. *reticulatus* Boulenger, 1884 "1883a"
D. *sirensis* Aichinger, 1991
D. *vanzolinii* Myers, 1982
D. *variabilis* Zimmerman and Zimmerman, 1988
D. *ventrimaculatus* Shreve, 1935
Epipedobates *azureiventris* (Kneller and Henle, 1985)
E. *bassleri* (Melin, 1941)
E. *bolivianus* (Boulenger, 1092c)
E. *cainarachi* Schulte, 1989
E. *femoralis* (Boulenger, 1884 "1883a")
E. *labialis* (Cope, 1874)
E. *macero* Rodríguez and Myers, 1993
E. *parvulus* (Boulenger, 1882a)
E. *petersi* (Silverstone, 1976)
E. *pictus* (Tschudi, 1838)
E. *silverstonei* (Myers and Daly, 1979)
E. *smaragdinus* (Silverstone, 1976)
E. *tricolor* (Boulenger, 1899)
E. *trivittatus* (Spix, 1824)
E. *zaparo* (Silverstone, 1976)

HYLJIDAE

- Agalychnis* *craspedopus* (Funkhouser, 1957)
Gastrotheca *abdita* Duellman, 1987
G. *excubitor* Duellman and Fritts, 1972
G. *galeata* Trueb and Duellman, 1978
G. *griswoldi* Shreve, 1941
G. *lateonata* Duellman and Trueb, 1988
G. *longipes* (Boulenger, 1882a)

- Phyllomedusa atelopoides Duellman, Cadle and Cannatella, 1988
 P. baltea Duellman and Toft, 1979
 P. bicolor (Boddaert, 1772)
 P. coelestis (Cope, 1874)
 P. duellmani Cannatella, 1982
 P. palliata Peters, 1872b
 P. tarsius (Cope, 1868)
 P. tomopterna (Cope, 1868)
 P. vaillanti (Boulenger, 1882a)
 Scarthyla ostinodactyla Duellman and de Sá, 1988
 Scinax alleni (Cope, 1869)
 S. chiquitana (De la Riva, 1990)
 S. cruentomma (Duellman, 1972)
 S. funerea (Cope, 1874)
 S. garbei (Miranda-Ribeiro, 1926)
 S. icterica Duellman and Wiens, 1993
 S. oreites Duellman and Wiens, 1993
 S. pedromedinae (Henle, 1991)
 S. rubra (Laurenti, 1768)
 Sphaenorhynchus carneus (Cope, 1868)
 S. dorisae (Goin, 1957)
 S. lacteus (Daudin, 1802)
 Trachycephalus jordani (Stejneger and Test, 1891)

LEPTODACTYLIDAE

- Adenomera andreae Müller, 1923
 A. hylaedactyla (Cope, 1868)
 Batrachophrynus macrostomus Peters, 1873
 Ceratophrys cornuta (Linnaeus, 1758)
 C. stolzmani Steindachner, 1882
 Edalorhina nasuta Boulenger, 1912
 E. perezii Jiménez de la Espada, 1871
 Eleutherodactylus aaptus Lynch and Lescure, 1980
 E. acuminatus Shreve, 1935
 E. altamazonicus Barbour and Dunn, 1921
 E. bearsei Duellman, 1992a
 E. cajamarcensis Barbour and Noble, 1920
 E. carvalhoi Lutz, 1952
 E. ceuthospilus Duellman and Wild, 1993
 E. citriogaster Duellman, 1992b
 E. colodactylus Lynch, 1979
 E. conspicillatus (Günther, 1858)
 E. cosnipatae Duellman, 1978b
 E. cruralis (Boulenger, 1902c)
 E. cryptomelas Lynch, 1979
 E. danae Duellman, 1978b
 E. diadematus (Jiménez de la Espada, 1875)
 E. eurydactylus Hedges and Schüller, 1990
 E. fenestratus (Steindachner, 1864)
 E. imitatrix Duellman, 1978c
 E. lacrimosus (Jiménez de la Espada, 1875)

- E. lanthanites Lynch, 1975b
 E. lindae Duellman, 1978b
 E. lymani Barbour and Noble, 1920
 E. lythrodes Lynch and Lescure, 1980
 E. malkini Lynch, 1980
 E. martiae Lynch, 1974
 E. mendax Duellman, 1978c
 E. nebulosus Henle, 1992
 E. nigrovittatus Andersson, 1945
 E. ockendeni (Boulenger, 1912)
 E. peruvianus (Melin, 1941)
 E. petrobardus Duellman, 1991a
 E. phoxocephalus Lynch, 1979
 E. platydactylus (Boulenger, 1903)
 E. quaquaversus Lynch, 1974
 E. rhabdolaemus Duellman, 1978a
 E. rhodoplichus Duellman and Wild, 1993
 E. salaputum Duellman, 1978b
 E. schultei Duellman, 1990a
 E. scitulus Duellman, 1978a
 E. sternothylax Duellman and Wild, 1993
 E. sulcatus (Cope, 1874)
 E. toftae Duellman, 1978c
 E. variabilis Lynch, 1968
 E. ventrimarmoratus (Boulenger, 1912)
 E. vilarsi (Melin, 1941)
 E. wiensi Duellman and Wild, 1993
 Hydrolaetare schimdti (Cochran and Goin, 1959)
 Ischnocnema quixensis (Jiménez de la Espada, 1872)
 I. saxatilis Duellman, 1990b
 Leptodactylus bolivianus Boulenger, 1898
 L. diedrus Heyer, 1994
 L. elenae Heyer, 1978
 L. fuscus (Schneider, 1799)
 L. griseigularis (Henle, 1981b)
 L. knudseni Heyer, 1972
 L. labrosus Jiménez de la Espada, 1875
 L. leptodactyloide (Anderson, 1945)
 L. mystaceus (Spix, 1824)
 L. pascoensis Heyer, 1994
 L. pentadactylus (Laurenti, 1768)
 L. petersii (Steindachner, 1864)
 L. podicipinus (Cope, 1862a)
 L. rhodomystax Boulenger, 1884 "1883a"
 L. rhodonotus (Günther, 1868)
 L. rhodostima Cope, 1874
 L. stenodema Jiménez de la Espada, 1875
 L. ventrimaculatus Boulenger, 1902a
 L. wagneri (Peters, 1862)
 Lithodytes lineatus (Schneider, 1799)
 Lynchophrys brachydactylus (Peters, 1873)

- Phrynopus bagrecito* Lynch, 1986
 P. *bracki* Hedges, 1990
 P. *cophites* Lynch, 1975a
 P. *juninensis* (Shreve, 1938)
 P. *lucida* Cannatella, 1984
 P. *montium* (Shreve, 1938)
 P. *nebulanastes* Cannatella, 1984
 P. *parkeri* Lynch, 1975a
 P. *pereger* Lynch, 1975a
 P. *peruanus* Peters, 1873
 P. *peruvianus* (Noble, 1921)
 P. *simonsii* (Boulenger, 1900)
 P. *wettsteini* (Parker, 1932)
Phyllonastes heyeri Lynch, 1986
 P. *lynchi* Duellman, 1991b
 P. *myrmecoides* (Lynch, 1976)
Physalaemus petersi (Jiménez de la Espada, 1872)
 P. *pustulatus* (Shreve, 1941)
Pleurodema cinerea Cope, 1877
 P. *marmorata* (Duméril and Bibron, 1841)
Telmatobius albiventris Parker, 1940
 T. *arequipensis* Vellard, 1955
 T. *brevipes* Vellard, 1951
 T. *brevirostris* Vellard, 1955
 T. *carrillae* Morales, 1988
 T. *crawfordi* Parker, 1940
 T. *culeus* (Garman, 1875)
 T. *ignavus* Barbour and Noble, 1920
 T. *intermedius* Vellard, 1951
 T. *jelskii* (Peters, 1873)
 T. *latirostris* Vellard, 1951
 T. *marmoratus* (Duméril and Bibron, 1841)
 T. *peruvianus* Wiegmann, 1834
 T. *rimac* Schmidt, 1954
Vanzolinius discodactylus (Boulenger, 1884 "1883a")

MICROHYLIDAE

- Chiasmocleis bassleri* Dunn, 1949
 C. *ventrimaculata* (Andersson, 1945)
Ctenophryne geayi Mocquard, 1904
Elachistocleis bicolor (Valenciennes, 1838)
 E. *ovalis* (Schneider, 1799)
Hamptophryne boliviana (Parker, 1927)
Syncope antenori Walker, 1973
 S. *carvalhoi* Nelson, 1975

PIPIDAE

- Pipa pipa* (Linnaeus, 1758)
 P. *snethlageae* Müller, 1914

PSEUDIDAE

Pseudis paradoxa (Linnaeus, 1758)

RANIDAE

Rana bwana Hillis and de Sá, 1988

R. palmipes Spix, 1824

ANNOTATIONS ABOUT LIST OF RODRIGUEZ ET AL. (1993)

Before the preliminary list of Amphibians from Perú (Rodriguez et al., 1993) was published I did not know of any publication reporting the following species listed below for Peru. In addition Two species were listed in the genus incorrect. *Centrolene euhystrix* (= *Cochranella*), *Dendrobates labialis* (= *Epipedobates*).

BUFONIDAE

Atelopus bomolochos Perters, 1973.

A. *pachydermus* (Schmidt, 1857).

Bufo ceratophrys Boulenger, 1882.

B. *veraguensis* Schmidt, 1857. Synonymy of *B. leptoscelis*.

DENDROBATIDAE

Colostethus bocagei (Jimenez de la Espada, 1971).

HYLIDAE

Hemiphractus proboscoidens (Jimenez de la Espada, 1870).

Hyla miyatai Vigle and Goberdham-Vigle, 1990.

Scinax quinquefasciata (Fowler, 1913).

LEPTODACTYLIDAE

Eleutherodactylus condor Lynch, 1979.

E. *croceoinguinis* Lynch, 1968.

Pseudopaludicola ceratophyes Rivero y Serna, 1984.

MICROHYLIDAE

Chiasmocleis anatipes Walker and Duellman, 1974.

GYMNOPHIONA**TYPHLONECTIDAE**

Potomotyphlus kaupii (Berthold, 1859).

BIBLIOGRAPHY

- Aichinger, M. 1991. A new species of poison-dart frog (Anura: Dendrobatidae) from the Serranía de Sira, Peru. *Herpetologica*, 47(1): 1-5.
- Andersson, L.G. 1945. Batrachians from east Ecuador collected 1937, 1938 by Wm. Clarke-MacIntyre and Rolf Blomberg. *Arkiv. Zool.*, 37(2): 1-88.
- Barbour, T. and E.R. Dunn 1921. Herpetological novelties. *Proc. Biol. Soc. Washington*, 34: 157-162.
- Barbour, T. and G.K. Noble. 1920. Some amphibians from northwestern Peru, with a revision of the genera Phyllobates and Telmatobius. *Bull. Mus. Comp. Zool.*, 63: 395-427.
- Beireis, G. C. 1783. Beschreibung eines bisher unbekannt gewesenen amerikanischen Frisches, welcher sich in der Naturliensammlung des Herrn Hofraths Beireis in Helmstadt befind. *Schrift. Ges. Naturf. Freunde Berlin*, 4: 78-182.
- Boddaert, P. 1772. Over den twee-koleurigen Kikvorsch. *De Rana Bicolore*. 41pp.
- Bokermann, W.C.A. 1962. Cuatro nuevos hylidos del Brasil (Amphibia, Salientia, Hylidae). *Neotropica*, 8(27): 81-91.
- Bokermann, W.C.A. 1963. Duas novas espécies de "Hyla" de Rondônia, Brasil. *Rev. Brasil. Biol.*, 23(3):247-250.
- Bokermann, W.C.A. 1964a. Dos nuevas especies de Hyla de Rondônia, Brasil (Amphibia, Salientia, Hylidae). *Neotropica*, 10(31): 1-6.
- Bokermann, W.C.A. 1964b. Notes on tree frogs of the Hyla marmorata group with description of a new species. *Senck. Biol.*, 45(3-4): 243-254.
- Boulenger, G.A. 1882a Catalogue of the Batrachia Salientia s. Ecaudata in the collection of the British Museum. London: British Museum xvi + 495 pp.
- Boulenger, G.A. 1882b. Catalogue of the Batrachia Gradientia s. Caudata and Batrachia Apoda in the collection of the British Museum. London: British Museum viii + 27 pp.
- Boulenger, G.A. 1884 "1883a". On a collection of frogs from Yurimaguas, Huallaga River, northern Peru. *Proc. Zool. Soc. London.*, 1883(4): 635-638.
- Boulenger, G.A. 1883b. Descriptions of a new species of caeciliae. *Ann. Mag. Nat. Hist.*, (5)11: 202-203.
- Boulenger, G.A. 1883c. Description of new species of reptiles and batrachians in the British Museum. *Ann. Mag. Nat. Hist.*, 12(5): 161-167.
- Boulenger, G.A. 1898. A list of the reptiles and batrachians collected by the late Prof. Balzan in Bolivia. *Ann. Mus. Civ. Stor. Nat. Genova*, 19(2): 128-133.

- Boulenger, G.A. 1900. Descriptions of new batrachians and reptiles collected by Mr. P.O. Simons, in Peru. *Ann. Mag. Nat. Hist.*, (7)6: 8181-186.
- Boulenger, G.A. 1902a. Descriptions of new batrachians and reptiles from north-western Ecuador. *Ann. Mag. Nat. Hist.*, ser. 7, 9(49): 51-57.
- Boulenger, G.A. 1902b. Description of two new South-American apodal batrachians. *Ann. Mag. Nat. Hist.*, ser. 7, 10(56): 152-153.
- Boulenger, G.A. 1902c. Description of new batrachians and reptiles from the Andes of Peru and Bolivia. *Ann. Mag. Nat. Hist.*, ser. 7, 10(59): 394-402.
- Boulenger, G.A. 1903. Descriptions of new batrachians in the British Museum. *Ann. Mag. Nat. Hist.*, (7)12: 552-557.
- Boulenger, G.A. 1912. Descriptions of new Batrachians from the Andes of South America, preserved in the British Museum. *Ann. Mag. Nat. Hist.*, ser. 8, 10(56): 185-191.
- Boulenger, G.A. 1918. Descriptions of new South American batrachians. *Ann. Mag. Nat. Hist.*, (9)2: 427-433.
-
- Cadle, J.E. and R.W. McDiarmid. 1990. Two new species of Centrolenella (Anura: Centrolenidae) from northwestern Peru. *Proc. Biol. Soc. Wash.*, 103(3): 746-768.
- Cannatella, D.C. 1980. Two new species of Centrolenella from Bolivia (Anura: Centrolenidae). *Proc. Biol. Soc. Wash.*, 93(3): 714-724.
- Cannatella, D.C. 1982. Leaf-frogs of the Phyllomedusa perinesos group (Anura: Hylidae). *Copeia*, 1982(3): 501-513.
- Cannatella, D.C. 1984. Two new species of the leptodactylid frog genus Phrynopus, with comments on the phylogeny of the genus. *Occ. Pap. Mus. Nat. Hist. Univ. Kansas*, 113: 1-16.
- Cannatella, D.C. and W.E. Duellman. 1982. Two new species of Centrolenella, with a brief review of the genus in Perú and Bolivia. *Herpetologica*, 38(3): 380-388.
- Cochran, D.M. and C.J. Goin. 1959. A new frog of the genus Limnomedusa from Colombia. *Copeia*, 1959(3): 208-210.
- Cochran, D.M. and C.J. Goin. 1970. Frog of Colombia. *Bull. United State Nat. Mus.*, 288; i-xii, 655 pp.
- Cope, E.D. 1862a. On some new little known American Anura. *Proc. Acad. Nat. Sci. Philadelphia*, 14: 151-158.
- Cope, E.D. 1862b. Catalogue of the reptiles obtained during the exploration of the Panama, Paraguay, Vermejo and Uruguay River by Capt. Thos. J. Page, U.S.N.; and of those procured by Lieut. N. Michler, U.S. Top. Eng., commander of the expedition conducting the survey of the Atrato River. *Proc. Acad. Nat. Sci. Philadelphia*, 14: 346-360.
- Cope, E.D. 1868. An examination of the reptilia and batrachians obtained by the Orton expedition to Ecuador and the upper Amazon, with notes on other species. *Proc. Acad.*

- Nat. Sci. Philadelphia, 20: 96-140.
- Cope, E.D. 1869. Seventh contribution of the herpetology of tropical America. Proc. Amer. Philos. Soc., 11: 147-169.
- Cope, E.D. 1870. Eighth contribution to the herpetology of tropical America. Proc. Amer. Philos. Soc., 11: 553-559.
- Cope, E.D. 1871. Ninth contribution to the herpetology of tropical America. Proc. Acad. Nat. Sci. Philadelphia, 23: 200-224.
- Cope, E.D. 1874. One some batrachian and nematognathi brought from the upper Amazon by Professor Orton. Proc. Acad. Nat. Sci. Philadelphia, 26: 120-132.
- Cope, E.D. 1877. Synopsis of the blooded vertebrata, procured by Prof. Jame Orton during his exploration of Peru in 1876-77. Proc. Amer. Philos. Soc., 17(100): 33-49.
- Cope, E.D. 1887. Synopsis of the batrachia and reptilia obtained by II Smith, in the Province of Mato Grosso, Brasil. Proc. Am. Philos. Soc. 24: 44-60.
- Daudin, F.M. 1802. Historie naturelle des rainettes, des grenouilles et des crapauds. Paris. 108 pp.
- De la Riva, I. 1990. Una especie nueva de *Ololygon* (Anura: Hylidae) procedente de Bolivia. Rev. Esp. Herp., 4: 81-86.
- Duellman, W.E. 1972. A new species of *Hyla* from Amazonian Ecuador. Copeia, 1972(2): 265-271.
- Duellman, W.E. 1976. Centrolenid frogs from Peru. Occ. Pap. Mus. Nat. Hist. Univ. Kansas, 52: 1-11.
- Duellman, W.E. 1978a. Two new species of *Eleutherodactylus* (Anura: Leptodactylidae) from the Peruvian Andes. Trans. Kansas Acad. Sci., 81(1): 65-71.
- Duellman, W.E. 1978b. New sepecies of leptodactylid frogs of the genus *Eleutherodactylus* from the Cosñipata Valley, Perú. Proc. Biol. Soc. Wash., 91(2): 418-130.
- Duellman, 1978c. Three new species of *Eleutherodactylus* from Amazonian Perú (Amphibian: Anura: Leptodactylidae). Herpetologica, 34(3): 264-270.
- Duellman, W.E. 1987. Two New Species of Marsupial Frogs. Copeia, 1987(4):903-909.
- Duellman, W.E. 1982. A new species of small yellow *Hyla* from Perú (Anura: Hylidae). Amphibia-Reptilia, 3: 153-160.
- Duellman, W.E. 1990a. A new species of *Eleutherodactylus* from the Andes of Northern Peru (Anura: Leptodactylidae). J. Herpetol., 24(4): 348-350.
- Duellman, W.E. 1990b. A new species of leptodactylid frog, genus *Ischnocnema*, from Peru. Occ. Pap. Mus. Nat. Hist. Univ. Kansas, 138: 1-7.
- Duellman, W.E. 1991a. A new species of *Eleutherodactylus* (Anura: Leptodactylidae) from the Cordillera Occidental of Peru. Herpetologica, 47(1): 6-9.

- Duellman, W.E. 1991b. A new species of leptodactylid frogs, genus Phyllonastes, from Peru. *Herpetologica*, 47(1): 9-13.
- Duellman, W.E. 1992a. Eleutherodactylus bearsei, new species (Anura: Leptodactylidae) from northeastern Peru. *Occ. Pap. Mus. Nat. Hist. Univ. Kansas*, 150: 1-7.
- Duellman, W.E. 1992b. A new species of the Eleutherodactylus conspicillatus group (Anura: Leptodactylidae) from northeastern Peru. *Rev. Esp. Herp.*, 6: 23-29.
- Duellman, W.E. and M.L. Crump. 1974. Speciation in frogs of the Hyla parviceps group in the Upper Amazon Basin. *Occ. Pap. Mus. Nat. Hist. Univ. Kansas*, 23:1-40.
- Duellman, W.E. and R. de Sá. 1988. A New genus and species of South American hylid frog with a highly modified tadpole. *Tropical Zoology*, 1:117-136.
- Duellman, W.E. and T.H. Fritts. 1972. A taxonomic review of the southern Andean marsupial frogs (Hylidae: Gastrotheca). *Occ. Pap. Mus. Nat. Hist. Univ. Kansas*, 9: 1-37.
- Duellman, W.E. and O. Ochoa. 1991. A new species of Bufo (Anura: Bufonidae) from the Andes of Southern Peru. *Copeia*, 1991(1): 137-141.
- Duellman, W.E. and R. Schulte. 1992. Description of a new species of Bufo from northern Peru with comments on phenetic groups of South America toads (Anura: Bufonidae). *Copeia*, 1992(1): 162-172.
- Duellman, W.E. and R. Schulte, 1993. New species of centrolenid frogs from northern Peru. *Occ. Pap. Mus. Nat. Hist. Univ. Kansas*, 155: 1-33.
- Duellman, W.E. and C.A. Toft. 1979. Anurans from Serranía de Sira, Amazonian Perú: Taxonomy and biogeography. *Herpetologica*, 35(1): 60-70.
- Duellman, W.E. and L. Trueb. 1988. Cryptic Species of hylid marsupial frogs in Peru. *J. Herpetol.*, 22(2):159-179.
- Duellman, W.E. and L. Trueb. 1989. Two new treefrogs of the Hyla parviceps group from the Amazon Basin in Southern Peru. *Herpetologica*, 45(1):1-10.
- Duellman, W.E. and J.J. Wiens. 1993. Hylid frogs of the genus Scinax Wagler, 1830, in Amazonian Ecuador and Peru. *Occ. Pap. Mus. Nat. Hist. Univ. Kansas*, 153: 1-57.
- Duellman, W.E. and E.R. Wild. 1993. Anura amphibians from the Cordillera de Huancabamba, northern Peru: Systematics, ecology, and biogeography. *Occ. Pap. Mus. Nat. Hist. Univ. Kansas*, 157: 1-53.
- Duellman, W.E., J.E. Cadle and D.C. Cannatella. 1988. A New species of terrestrial Phyllomedusa (Anura: Hylidae) from Southern Peru. *Herpetologica*, 44(1):91-95.
- Duméril, A.M.C., G. Bibron. 1841. *Erpétologie générale, ou Histoire Naturelle complete des Reptiles*. Vol. 8 Roret. Paris. 784 pp.
- Dunn, E.R. 1942. The American caecilians. *Bull. Mus. Comp. Zool.*, 91: 439-540.
- Dunn, E.R. 1949. Notes on the South American frog of the family Microhylidae. *Amer. Mus. Nat. Hist. Novitates*, 1419: 1-21.

- Edwards, S.R. 1971. Taxonomic notes on South American Colostethus with description of two new species (Amphibian, Dendrobatidae). Proc. Biol. Soc. Washington, 84: 147-162.
- Flores, G. and R.W. McDiarmid. 1989. Two new species of South American Centrolenella (Anura: Centrolenidae) related to C. mariae. Herpetologica, 45(4): 401-411.
- Funkhouser, A. 1957. A review of neotropical tree-frogs of the genus Phyllomedusa. Occ. Pap. Nat. Hist. Mus. Stanford Univ., 5: 1-90.
- Frost, D.R. 1986. A new Colostethus (Anura: Dendrobatidae) from Ecuador. Proc. Biol. Soc. Wash., 99(2): 214-217.
- Gaige, H.T. 1929. Three new tree-frogs from Panama and Bolivia. Occ. Pap. Mus. Univ. Michigan, 207: 1-6.
- Garman, S.W. 1875. Exploration of Lake Titicaca by Alexander Agassizi and S.W. Garman. Batrachians, reptiles. Bull. Mus. Comp Zool., 3: 276-278.
- Goeldi, E.A. 1907. Description of Hyla resinificatrix, a new Amazonian tree-frog peculiar for its breeding habitats. Proc. Zool. Soc. London, : 135-140.
- Goin, C.J. 1957. Status of the prog[sic] genus Sphoerohyla with a synopsis of the species. Copeia, 8(36): 11-31
- Goin, C.J. 1959. A synonym and a homonym in the frog genus Hyla. Copeia, 1959(4): 340-341.
- Goin, C.J. 1960. Description of a new frog of the genus Hyla from northwestern Brazil. Ann. Mag. Nat. Hist., 13(2): 721-724.
- Gray, P. and D.C. Cannatella. 1985. A New Species of Atelopus (Anura, Bufonidae) from the Andes of Northern Perú. Copeia, 1985(4):910-917.
- Günther, A. 1858. Catalogue of the Batrachian Salienta in the collection of the British Museum. London. xvi + 160 pp.
- Günther, A. 1859. Second list of cold-blooded Vertebrata collected by Mr. Fraser in the Andes of western Ecuador. Proc. Zool. Soc. London, 1859: 402-420.
- Günther, A. 1868. First account of species of tailless batrachians added to the collection of the British Museum. Proc. Zool. Soc. London, 1868: 478-490.
- Günther, A. 1870. Second account of species of tailless Batrachians added to the collection of the British Museum. Proc. Zool. Soc. London, 1870: 402.
- Hedges, S.B. 1990. A new species of Phrynopus (Anura: Leptodactylidae) from Perú. Copeia, 1990(1): 108-112.
- Hedges, S.B. and A. Schlüter. 1992. Eleutherodactylus eurydactylus, a new species of frog from central Amazonian

- Perú (Anura: Leptodactylidae). Copeia, 1992(4): 1002-1006.
- Henle, K. 1981a. Hyla elkejungingerae, ein neuer Hylide aus dem peruanischen Regenwald (Amphibia: Salientia: Hylidae). Amphibia-Reptilia 2: 123-132.
- Henle, K. 1981b. Adenomera griseigularis, ein neue Leptodactylidae-Art aus Peru (Amphibia: Salientia: Leptodactylidae). Amphibia-Reptilia, 2: 139-142.
- Henle, K. 1991. Ololygon pedromedinai sp. nov., ein neuer knichzehenlaubfrosch (Hylidae) aus Peru. Salamandra, 27(1): 76-82.
- Henle, K. 1992. Zur Amphibienfauna Perus nebst beschreibung einen neues Eleutherodactylus (Leptodactylidae). Bonn. Zool. Beitr., 43(1): 78-129.
- Heyer, W.R. 1972. The status of Leptodactylus pumilio Boulenger (Amphibia, Leptodactylidae) and the description of a new specie of Leptodactylus from Ecuador. Mus. Hist. Nat. Los Angeles C. Contr. Sci., 231: 1-8.
- Heyer, W.R. 1978. Systematic of the Fuscus group of the frog genus Leptodactylus (Amphibia, Leptodactylidae). Mus. Hist. Nat. Los Angeles C. Contr. Sci., 29: 1-85.
- Heyer, W.R. 1994. Variation within the Leptodactylus podicipinus-wagneri complex of frogs (Amphibian: Leptodactylidae). Smith. Cont. Zool. 546: 1-124.
- Hillis, D.M. and R. de Sá. 1988. Phylogeny and taxonomy of the Rana palmipes group (Salientia: Ranidae). Herpetological Monog., 2: 1-26.
- Jiménez de la Espada, M. 1871. Faunae neotropicalis species quaedam nondum cognitae. J. Sci. Math. Phys. Nat. Acad. Real, Lisbon, 3: 57-65.
- Jiménez de la Espada, M. 1872. Nuevos batracios americanos. A. Soc. Esp. Hist. Nat., 1: 85-88.
- Jiménez de la Espada, M. 1875 Vertebrados del viaje al Pacífico. verificado de 1862 a 1865 por una comisión de naturalistas enviados por el Gobierno Español. Madrid : Gines 208 pp. 7 pls.
- Kneller, M. und K. Henle. 1985. Ein neuer blattsteiger-frosch (Salientia: Dendrobatidae: Phyllobates) aus Peru. Salamandra, 21(1): 62-69.
- Laurenti, J.N. 1768. Specimen medicum exhibens synopsis Reptilium emendatum cum experimentis circa venena et antidota reptilium Austriacorum. Viennae. 214 pp.
- Leviton, A.L. and W.E. Duellman. 1978. A case of homonymy in Bufo (Amphibia, Anura, Bufonidae). J. Herpetol., 12:246-247.
- Linnaeus, C. 1758. Systema naturae per regna tria naturae, secundum classes ordines, genera, species sum characteribus, differentiis, synonymis, locis. Editio decima, reformata,

- Tom. 1. Holmiae: Laurentii Salvii. 8244 pp.
- Lutz, B. 1952. Short notes on some frogs from the Upper Amazons and a few vicariant forms. In Lutz, B. and G.R. Kloss. Anfíbios anuros do alto Salimões e Rio Negro: Apontamento sôbre algumas formas e suas vicariantes. Mem. Inst. Oswaldo Cruz, Rio de Janeiro, 50: 629-678.
- Lynch, J.D. 1968a. Two new frogs of the genus Eleutherodactylus from eastern Ecuador (Amphibia: Leptodactylidae), J. Herpetol., 2: 129-135.
- Lynch, J.D. 1974 New species of frogs (Leptodactylidae: Eleutherodactylus) from the Amazonian lowland of Ecuador. Occ. Pap. Mus. Nat. Hist. Univ. Kansas, 31: 1-22.
- Lynch, J.D. 1975a. A review of the Andean leptodactylid frog genus Phrynopus. Occ. Pap. Mus. Nat. Hist. Univ. Kansas, 35: 1-51.
- Lynch, J.D. 1975b. The identity of the frog Eleutherodactylus conspicillatus (Günther) with description of two related species from northwestern South America (Amphibia: Leptodactylidae). Nat. Hist. Mus. Los Angeles Co. Contr. Sci., 272: 1-19.
- Lynch, J.D. 1976. Two new species of frogs of the genus Euparkerella (Amphibia: Leptodactylidae) from Ecuador and Peru. Herpetologica, 32: 48-53.
- Lynch, J.D. 1979. Leptodactylid frogs of the genus Eleutherodactylus from the Andes of southern Ecuador. Mus. Nat. Hist. Univ. Kansas. Misc. Pub., 66: 1-66.
- Lynch, J.D. 1980. A taxonomic and distributional synopsis of the Amazonian frogs of the genus Eleutherodactylus. Am. Mus. Nat. Hist. Novitates, 2696: 1-24.
- Lynch, D.J. 1986. New species of minute leptodactylid frogs from the Andes of Ecuador and Peru. J. Herpetol., 20(3): 423-431.
- Lynch, J.D. and W.E. Duellman. 1973. A review of the centrolenid frogs of Ecuador, with description of new species. Occ. Pap. Mus. Nat. Hist. Univ. Kansas, 16: 1-66.
- Lynch, J. and J. Lescure. 1980. A collection of eleutherodactyline frogs from Northeast Amazonian Peru with the description of two new species (Amphibia: Salientia: Leptodactylidae). Bull. Mus. Natl. Hist. Nat., Paris, (4)2:303-316.
- Melin, D. 1941. Contribution to the knowledge of Amphibian of South America. Goteb. Kungl. Vetensk. Vitterl-Sam. Handl., Ser. B, (14): 1-71.
- Mikan, J.C. 1820. Delectus florae et faunae brasiliensis. Vidabonae, 1820, folio pl 11.
- Miranda-Ribeiro, A. 1926. Gymnobatrachios (Anura) Brasileiros. Arch. Mus. Nac. Rio de Janeiro, 27: 1-227.
- Mocquard, F. 1904. Description de quelques reptiles et d'un batracien nouveaux de la collection du Muséum. Bull. Mus. Hist. Nat. Paris, 1904: 301-309.
- Morales, V.R. 1988. Una nueva especie de Telmatobius (Anura. Leptodactylidae) de Ancash, Perú. Revta. Bras. Zool.,

- 5(4):603-608.
- Morales, V.R. 1992. Dos especies nuevas de Dendrobates (Anura: Dendrobatidae) para Perú. *Carib. J. Sci.*, 28(3-4): 191-199.
- Morales, V.R. y R. Schulte. 1993. Dos especies nuevas de Colostethus (Anura, Dendrobatidae) en las vertientes de la Cordillera Oriental del Perú y Ecuador. *Alytes*, 11(3): 97-106.
- Müller, L. 1914. On a new species of the genus Pipa from northern Brazil. *Ann. Mag. Nat. Hist.*, 8(14): 102.
- Müller, L. 1923. Neue oder seltene Reptilien und Batrachier der Zoologischen Sammlung des bayr. Staates. *Zool. Anz.* 57: 38-42.
- Myers, C. W. 1982. Spotted poison frogs: Descriptions of three new Dendrobates from Western Amazonian, and resurrection of a lost species from "Chiriqui". *Amer. Mus. Novitates*, 2721: 1-23.
- Myers, C.W. and J.W. Daly. 1979. A name for the poison frog of Cordillera Azul, eastern Peru, with notes on its biology and skin toxins (Dendrobatidae). *Amer. Mus. Novitates*, 2674: 1-24.
- Myers, G.S and A.L. de Carvalho. 1945. Notes on some new or little know Brazilian amphibians, with an examination of the history of the Plata salamandes, Ensatina platensis. *Bol. Mus. Nac.Zool. Rio de Janeiro*, 35: 1-24.
- Nelson, C.E. 1975. Another new miniature 4-toed South American microhylid frog (Genus Syncope); *J. Herpetol.*, 9: 81-84.
- Noble, G.K. 1917. The systematic status of some batrachians from South America. *Bull. Amer. Mus. Nat. Hist.*, 37: 793-814.
- Noble, G.K. 1921. Five new species of Salienta from South America. *Amer. Mus. Nat. Hist. Novitates*, 29: 1-7.
- Parker, H.W. 1927. The brevicipitid frogs allied to the genus Gastrophryne. *Occ. Pap. Mus. Zool. Univ. Michigan*, 187: 1-6.
- Parker, H.W. 1932. The systematic status of some frogs in the Vienna Museum. *Ann. Mag. Nat. Hist.*, 10(10): 341-344.
- Parker, H.W. 1940. The Percy Sladen Trust expedition to Lake Titicaca in 1937. *Amphibia. Trans. Linn. Soc. London*, 1(2): 203-216.
- Péfaur, J.E. 1985. New species of Venezuelan Colostethus (Dendrobatidae). *J. Herpetol.*, 19: 321-327.
- Peters, W. 1862. Über die batrachier-Gattung Hemiphractus. *Monatsber. Preuss. Akad. Wiss. Berlin*, 1862: 144-152.
- Peters, W. 1867. Über flederthiere und Amphibien. *Monatsber. Akad. Preuss. Wiss. Berlin*, 1867: 703-712.
- Peters, W. 1872a. Über iene Sammlung von batrachiern aus Neu-Freiburg in Brasilien. *Monatsber. Preuss. Akad. Wiss. Berlin*, 1872: 680-684.
- Peters, W. 1872b. Über eine, zwei neue gattung enthaltende, Sammlung von Batrachier des Hrn Dr. O. Wucherer aus Bahia,

- so wie über einige neue oder weniger bekannte Saurier.
Monatsber. Preuss. Akad. Wiss. Berlin, 1872: 767-776.
- Peters, W. 1873. Über zwei Giftschlangen aus Afrika un über neue
ober weniger bekannte Gattungen und Arten von Batrachiern.
Monatsber. Preuss. Akad. Wiss. Berlin, 1873: 411-417.
- Rivero, J.A. 1991. New Colostethus (Amphibia, Dendrobatidae) from
South America. *Breviora Mus. Comp. Zoo.*, 493: 1-28.
- Rodríguez, L and C.W. Myers. 1993. A nwe poison frog from Manu
National Park, Southeastern Peru (Densrobatidae,
Epipedobates). *Amer. Mus. Novitates*, 3068: 1-15.
- Schmidt, K.P. 1954. Notes on frogs of the genus Telmatobius with
description of two new Peruvian species. *Fildiana Zool.*, 34:
277-287.
- Schmidt, O. 1857. Diagnosen neuer Frösche des zoologischen
Cabinet zu Krakau. *Sitzb. Akad. Wien Math. Naturwiss KL.*,
24(1): 10-15.
- Schneider, J.G. 1799. *Historiae amphibiorum naturalis et
literariae*. Jena: Frommann., 1: 1-264.
- Schulte, R. 1986. Eine neue Dendrobates- Art aus Ostperu
(Amphibia: Salientia: Dendrobatidae). *Sauria*, 8(3):11-20.
- Schulte, R. 1989. Nueva especie de rana venenosa del género
Epipedobates registrada en la Cordillera Oriental,
Departamento de San Martín. *Bol. Lima*, 63: 41-46.
- Shaw, G. 1802. *General zoology, or systematic natural history*.
Part. 1. Amphibia. London, Kearsley, 3: 1-312.
- Shreve, B. 1935. On a new teiid and amphibia from Panama,
Ecuador, and Paraguay. *Occ. Pap. Boston Soc. Nat. Hist.*, 8:
209-218.
- Shreve, B. 1938. A new Liolaemus and two new Syrhopus from Peru.
J. Wash. Acad. Sci., 28(9): 404-407.
- Shreve, B. 1941. Notes on Ecuadorian and Peruvian reptiles and
amphibians, with description of new forms. *Proc. New England
Zool. Club*, 18: 71-83.
- Silverstone, P.A. 1976. A revision of the poison-arrow frogs of
the genus Phyllobates Bibron in Sagra (Family
Dendrobatidae). *Nat. Hist. Mus. Los Angeles Co. Sci. Bull.*,
27: 1-53.
- Spix, J.B. von 1824 *Species novae Ranarum quas in itinere annis
1817-1820 per Brasilies jussus et auspiciis Maximiliani
Josephi I. Munich: Hübschmann. 29 pp.*
- Steindachner, F. 1862. Über zwei noch unbeschriebene Batrachier
aus den Sammlungen des K.K. Zoologischen Museum zu Wien.
Arch. Zool. Anat. Fis., 2:77-82.
- Steindachner, F. 1864. *Batrachologische Mitteilungen*. *Verh. Zool-
Bot. Ges. Wien*, 14: 239-288.
- Steindachner, F. 1882. *Batrachologische beiträge*. *Sitzb. Akad.
Wien Math. Naturwiss KL.*, 85: 188-194.
- Steindachner, F. 1892. Über zwei noch unbeschriebene Nototrema-

- Arten aus Ecuador und Bolivia. Sitzber. Akad. Wiss. Wien, 100: 837-342.
- Stejneger, L. 1913. Results of the Yale Peruvian expedition of 1911.- Batrachians and Reptiles. Proc. U.S. Nat. Mus., 45(1992). 541-547.
- Stejneger, L. and F.C. Test. 1891. Description of a new genus and species of tailless batrachian from tropical America. Proc. U. S. Nat. Mus., 14: 167-168.
- Taylor, E.H. 1968. The caecilians of the world. Lawrence: Univ. Kansas. 848 pp.
- Taylor, E.H. 1973. A caecilian miscellany. Univ. Kansas Sci. Bull., 50:187-231.
- Troschel, F.H. 1848. In Schomburgk, M.R. Versuch einer Zusammenstellung der Fauna und Flora von Britisch-Guiana, Amphibien, Th. 3. Leipzig, : 645-661.
- Trueb, L. and W.E. Duellman. 1978. An extraordinary new casque-headed marsupial frog (Hylidae: Gastrotheca). Copeia, 1978(3): 498-503.
- Tschudi, J.J. von. 1838. Classification der Batrachier, mit Berücksichtigung der fossilen thiere dieser Abtheilung der Reptilien. Mem. Soc. Sci. Nat. Neuchatel, : 1-99.
- Tschudi, J.J. von. 1845. Reptilium conspectus quae in Republica Peruana reperiunter et plertaque observata vel collecta sunt in itinere a Dr. J. J. von Tschudi. Archiv. für Naturgeschichte, 11: 150-170.
- Valenciennes, 1838. In Guérin-Méneville, Inconographie du regne animal de G. Cuvier, vol 1(Rept.), pl. 27, fig. 2.
- Vellard, J. 1951. Estudio de los batracios andinos. I.- El grupo Telmatobius y sus formas afines. Mem. Mus. Hist. Nat. "Javier Prado", 1: 1-89.
- Vellard, J. 1955. Estudio de los batracios andinos. III.- Los Telmatobius del grupo Jelskii. Mem. Mus. Hist. Nat. "Javier Prado", 4: 1-28.
- Vellard, J. 1959. Estudio de los batracios andinos. V. El género Bufo. Mem. Mus. Hist. Nat. "Javier Prado", 8: 1-48.
- Wake, D.B., A.H. Brame and Thomas, R. 1982. A remarkable new species of Salamander allied to Bolitoglossa altamazonica (Plethodontidae) from Southern Peru. Occ. Pap. Mus. Zool. Louisiana State Univ., 58: 1-21.
- Wake, M. 1985 "1984". A new caecilian from Peru (Amphibia: Gymnophiona). Bonn Zool. Beitr., 35(1-3): 213-220.
- Walker, C.F. 1973. A new genus and species of microhylid frog from Ecuador. Occ. Pap. Mus. Nat. Hist. Univ. Kansas, 20: 1-7.
- Werner, F. 1901. Über Reptilien und Batrachier aus Ecuador und Neu Guinea. Verh. Zool.-Bot. Ges. Wien, 51: 594-614.

Wiegmann, A.F.A. 1834. Amphibien. In Meyen, F.J.F. Beiträge zur Zoologie, gesammelt aut iener Reise um die Erde. Nova Acta Acad. Carol Leop. Nat. Cur., 17(1): 185-268.

Zimmermann, H. and E. Zimmermann. 1988. Etho-taxonomic und zoogeographische Artengruppenbildung bei Pfeilgiftfröschen. Salamandra, 24(2/3): 125-160.